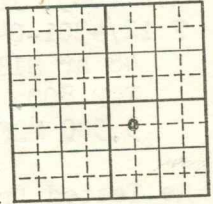


A-4-220
 MAP NO. K-84 ELEV. 2779 DF
 STATE Kansas COUNTY Seward SEC. 9 Twp 33 S Rge 31 W
 OPERATOR Panhandle Development Co., Inc. Liberal LOC. C NW SE
 WELL NO. 1 FARM NAME Atwell FT. FROM _____ LINE _____
 Loc. Kismet, NW, Ext (PD 6150) FT. FROM _____ LINE _____
 FR. 2-21-61 SPUD. 2-26-61 COMP. 4-17-61

CONT./GEOL. Company tools
 NAME PRODUCING INTERVAL Toronto COMPLETION RECORD FROM - TO 4301-04 PERF. W/HOLES 12 TREATMENT RECORD 1500 Ac



a. _____
 b. _____
 c. _____
 d. _____
 I. P. OIL/DIST. WTR. COF GAS 5,400 M.C.F.P.D. _____ CHK. 4 pt HRS. _____
 b. " " " " " "
 c. " " " " " "
 d. _____ D & A ()

SIP# 454.4 FI TP # _____ FI CP# 4333 SIBHP _____
 GOR. _____ GR. _____ PBD 6045 TD _____
 CASING - CEMENT RECORD
 SIZE DEPTH W/SAX. DEPTH W/SAX.
8-5/8" 1242 650 _____
5 1/2" 4355 100 _____

OPERATOR Panhandle Dev. Co. WELL NO. 1 Atwell ELEV. 2779 DF

SAMPLE TOPS	DEPTH	SUB SEA	ELEC. TOPS	DEPTH	SUB SEA
Heebner	4256		Council Grove	3038	
Toronto	4296		Heebner	4259	
			Toronto	4290	
			Lansing	4421	
			Marmaton	5060	
			Cherokee	5211	
			Morrow Shale	5555	
			Chester	5623	
			Ste Genevieve	5827	
			St Louis	5946	

Spud 2-26-61. 8-5/8" @ 1242 w/650 sx.
 DST # 1 (Perm) 2760-2800, op 90 mins, GTS 32 mins, ga 20 MCF/40 mins, rec 390' GCSW, ISIP 530/30 mins, FP 90-148, FSIP 555/30 mins.
 DST # 2 3042-3220, op 1 hr, rec 1240' GCMSW, ISIP 855/30 mins, FP 205-440, FSIP 800/30 mins.
 DST # 3 (Toro) 4299-4310, op 2 hrs, GTS 1 min, max ga 1,540 MCF 60 mins, rec 90' HGCM + 30' W, ISIP 1272/30 mins, FP 178-267, FSIP 1272/30 mins.

DST #4 (Tor) 4315-30, op 1 hr, rec 660' SW&GCM, ISIP 1295/30 mins, FP 67-267, FSIP 1192/30 mins.
 DST #5 (Marm) 5063-95, op 90 mins, GTS 21 mins, TSTM, rec 220' GCM, ISIP 1325/30 mins, FP 75-90, FSIP 1470/30 mins.
 DST #6 (Miss) 5835-80, op 90 mins, gd blo, rec 20' Mud, ISIP 969/30 mins, FP 39-39, FSIP 1160/30 mins.
 DST #7 (Miss) 5945-97, op 90 min, rec 180' GIP + 2520' XW, ISIP 1910/30 mins, FP 215-1270, FSIP 1725/30 mins.
 RTD 6045, logs to 6044. 5½" @ 4355 w/100 sx. CO 4333.
 P 12/4301-04. 1500 Ac. g 10,000 MCF. Ran 2 3/8" T 4327.
 48 hr SITP 810, SICP 1025. 4 hr BD g 3,350 MCF + 2½ BFMWPH.
 FCP 800. 3 hr BD g 3,350 MCF + 81 GFMWPH. SIP 1030. 6 hr BD 3,500 MCF + 90 GWP, FTP 400, FCP 740. 4 pt COF 6,500 MCF.

Re-Tested fro IP 4 pt COF = 5,400 MCF, SIP 454.4 from Toronto 4301-04.

LIBERAL TOPS

2780 KB

Winfield 2700 (*80) tst 20 MCF
 C. G. 2984 (-204)
 Toronto 4298 (-1518) 4 pt COF = 5,400 MCF
 Lansing 4420 (-1640)
¹¹armaton 5060 (-2280) tst gas TSTM
 Morrow 5556 (-2776)
 Chester 5622 (-2842)
 St. Gen 5824 (-3044) tst Mud
 St. Louis 5896 (-3116)
 TD 6045

5354
 2780
 2776